

**2009 AIR QUALITY
SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT**

2009

Source/Receptor Area		Carbon Monoxide ^{a)}			Ozone									Nitrogen Dioxide ^{d)}				Sulfur Dioxide ^{e)}			
		Station No.	No. Days of Data	Max. Conc. in ppm	Max. Conc. in ppm	No. Days of Data	Max. Conc. in ppm	Max. Conc. in ppm	Fourth High Conc. ppm	No. Days Standard Exceeded					No. Days of Data	Max. Conc. in ppm	98 th Percentile Conc. ppm	Annual Average AAM Conc. ppm	No. Days of Data	Max. Conc. in ppm	Max. Conc. in ppm
										Federal ^{b)}		State ^{c)}									
No.	Location							Health Advisory ≥ 0.15 ppm	> 0.12 ppm	> 0.075 ppm	> 0.09 ppm	> 0.070 ppm									
LOS ANGELES COUNTY																					
1	Central LA	087	357	3	2.2	365	0.139	0.100	0.073	0	1	2	3	5	365	0.12	0.07	0.0281	365	0.01	0.002
2	Northwest Coastal LA County	091	365	2	1.5	365	0.131	0.094	0.075	0	1	3	6	5	355	0.08	0.06	0.0170	--	--	--
3	Southwest Coastal LA County	820	349	2	1.9	352	0.077	0.070	0.061	0	0	0	0	0	362	0.08	0.07	0.0159	362	0.02	0.006
4	South Coastal LA County 1	072	362	3	2.2	363	0.089	0.068	0.064	0	0	0	0	0	362	0.11	0.07	0.0212	361	0.02	0.005
4	South Coastal LA County 2	077	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
6	West San Fernando Valley	074	365	4	2.8	365	0.135	0.100	0.093	0	1	19	15	31	365	0.07	0.06	0.0171	--	--	--
7	East San Fernando Valley	069	365	3	2.9	365	0.145	0.096	0.086	1	1	14	16	28	353	0.09	0.07	0.0274	362	0.01	0.003
8	West San Gabriel Valley	088	365	4	2.1	365	0.176	0.114	0.095	1	3	12	12	19	365	0.08	0.06	0.0221	--	--	--
9	East San Gabriel Valley 1	060	357	3	1.7	365	0.150	0.107	0.091	1	4	17	23	32	365	0.10	0.07	0.0194	--	--	--
9	East San Gabriel Valley 2	591	351	3	2.1	352	0.150	0.118	0.108	3	7	42	45	64	350	0.09	0.06	0.0170	--	--	--
10	Pomona/Walnut Valley	075	365	3	1.8	365	0.138	0.099	0.095	0	1	23	25	37	365	0.10	0.08	0.0274	--	--	--
11	South San Gabriel Valley	085	365	3	2.1	365	0.131	0.101	0.072	0	1	3	8	6	361	0.10	0.07	0.0259	--	--	--
12	South Central LA County	112+	354	7	4.6	354	0.104	0.086	0.064	0	0	1	2	1	354	0.09	0.07	0.0214	--	--	--
13	Santa Clarita Valley	090	361	2	1.4	357	0.140	0.122	0.103	0	5	64	57	77	357	0.06	0.05	0.0151	--	--	--
ORANGE COUNTY																					
16	North Orange County	3177	365	4	2.3	365	0.115	0.082	0.075	0	0	3	4	9	365	0.10	0.06	0.0206	--	--	--
17	Central Orange County	3176	365	3	2.7	365	0.093	0.077	0.068	0	0	1	0	2	365	0.07	0.06	0.0179	--	--	--
18	North Coastal Orange County	3195	362	3	2.2	365	0.087	0.075	0.066	0	0	0	0	3	365	0.07	0.06	0.0130	364	0.01	0.004
19	Saddleback Valley	3812	362	2	1.0	362	0.121	0.095	0.084	0	0	10	7	14	--	--	--	--	--	--	--
RIVERSIDE COUNTY																					
22	Norco/Corona	4155	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
23	Metropolitan Riverside County 1	4144	364	2	1.9	346	0.116	0.100	0.089	0	0	35	25	57	357	0.08	0.06	0.0171	364	0.01	0.003
23	Metropolitan Riverside County 2	4146	365	3	1.8	--	--	--	--	--	--	--	--	--	365	0.08	0.06	0.0200	--	--	--
23	Mira Loma	4165	364	3	2.4	364	0.118	0.090	0.086	0	0	22	15	37	364	0.08	0.05	0.0158	--	--	--
24	Perris Valley	4149	--	--	--	354	0.125	0.108	0.101	0	1	67	53	88	--	--	--	--	--	--	--
25	Lake Elsinore	4158	365	1	0.7	365	0.128	0.105	0.096	0	1	37	24	65	365	0.06	0.04	0.0129	--	--	--
29	Banning Airport	4164	--	--	--	359	0.133	0.104	0.100	0	1	70	55	93	359	0.06	0.05	0.0109	--	--	--
30	Coachella Valley 1**	4137	365	2	0.7	365	0.120	0.098	0.096	0	0	53	28	73	349	0.05	0.04	0.0081	--	--	--
30	Coachella Valley 2**	4157	--	--	--	365	0.097	0.090	0.085	0	0	24	6	41	--	--	--	--	--	--	--
SAN BERNARDINO COUNTY																					
32	Northwest San Bernardino Valley	5175	365	2	1.5	365	0.146	0.121	0.102	1	3	49	51	71	363	0.11	0.07	0.0239	--	--	--
33	Southwest San Bernardino Valley	5817	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
34	Central San Bernardino Valley 1	5197	365	2	1.5	365	0.142	0.128	0.100	0	3	48	45	65	365	0.11	0.07	0.0235	365	0.01	0.002
34	Central San Bernardino Valley 2	5203	363	3	1.9	363	0.150	0.126	0.101	1	2	62	53	79	363	0.08	0.06	0.0196	--	--	--
35	East San Bernardino Valley	5204	--	--	--	365	0.145	0.122	0.100	1	1	73	62	91	--	--	--	--	--	--	--
37	Central San Bernardino Mountains	5181	--	--	--	364	0.149	0.117	0.110	2	7	92	70	107	--	--	--	--	--	--	--
38	East San Bernardino Mountains	5818	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
DISTRICT MAXIMUM			7	4.6		0.176	0.128	0.110	3	7	92	70	107		0.12	0.08	0.0281		0.02	0.006	
SOUTH COAST AIR BASIN			7	4.6		0.176	0.128	0.110	6	15	113	102	133		0.12	0.08	0.0281		0.02	0.006	

ppm - Parts Per Million parts of air, by volume.

AAM = Annual Arithmetic Mean

-- - Pollutant not monitored.

** Salton Sea Air Basin.

+ Site was relocated.

a) - The federal 8-hour standard (8-hour average CO > 9 ppm) and state 8-hour standard (8-hour average CO > 9.0 ppm) were not exceeded.

The federal and state 1-hour standards (35 ppm and 20 ppm) were not exceeded, either.

b) - The federal 1-hour ozone standard was revoked and replaced by the 8-hour average ozone standard effective June 15, 2005. U.S. EPA has revised the federal 8-hour ozone standard from 0.084 ppm to 0.075 ppm, effective May 27, 2008.

c) - The 8-hour average California ozone standard of 0.070 ppm was established effective May 17, 2006.

d) - The federal standard is annual arithmetic mean NO₂ > 0.0534 ppm. California Air Resources Board has revised the NO₂ 1-hour state standard from 0.25 ppm to 0.18 ppm and has established a new annual standard of 0.030 ppm, effective March 20, 2008. U.S. EPA has established a new NO₂ 1-hour standard of 100 ppb (0.100 ppm), effective April 7, 2010.

e) - The state standards are 1-hour average SO₂ > 0.25 ppm and 24-hour average SO₂ > 0.04 ppm. U.S. EPA has revised the federal standard by establishing a new SO₂ 1-hour standard of 75 ppb (0.075 ppm) and revoking the existing annual (0.03 ppm) and 24-hour (0.14 ppm) SO₂ standards, effective August 2, 2010. The federal and state SO₂ standards were not exceeded.



**South Coast
Air Quality Management District**
21865 Copley Drive
Diamond Bar, CA 91765-4182
www.aqmd.gov

**2009 AIR QUALITY
SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT**

2009

Source/Receptor Area No. Location	Station No.	Suspended Particulates PM10 ^{f)}					Fine Particulates PM2.5 ^{g)}					Particulates TSP		Lead		Sulfate		
		No. Days of Data	Max. Conc. in µg/m ³ 24-hour	No. (%) Samples Exceeding Standards Federal µg/m ³ State µg/m ³ > 150 > 50		Annual Average Conc. ^{h)} (AAM) µg/m ³	No. Days of Data	Max. Conc. in µg/m ³ 24-hour	98 th Percentile Conc. in µg/m ³ 24-hour	No. (%) Samples Exceeding Federal Std > 35 µg/m ³		Annual Average Conc. ⁱ⁾ (AAM) µg/m ³	No. Days of Data	Max. Conc. in µg/m ³ 24-hour	Annual Average Conc. (AAM) µg/m ³	Max. Monthly Average Conc. ^{j)} µg/m ³	Max. Quarterly Average Conc. ^{j)} µg/m ³	Max. Conc. in µg/m ³ 24-hour
LOS ANGELES COUNTY																		
1 Central LA	087	60	72	0	4(6.7)	33.1	359	61.7	34.0	7(1.9)	14.3	61	148	66.8	0.02	0.01	9.8	0
2 Northwest Coastal LA County	091	--	--	--	--	--	--	--	--	--	--	59	99	50.8	--	--	9.1	0
3 Southwest Coastal LA County	820	60	52	0	1(1.7)	25.4	--	--	--	--	--	48	87	42.4	0.01	0.01	8.6	0
4 South Coastal LA County 1	072	57	62	0	3(5.3)	30.5	328	63.0	34.2	6(1.8)	13.0	60	128	55.4	0.01	0.01	13.6	0
4 South Coastal LA County 2	077	56	83	0	5(8.9)	33.2	350	55.8	30.5	4(1.1)	12.5	59	159	65.2	0.01	0.01	12.1	0
6 West San Fernando Valley	074	--	--	--	--	--	110	39.9	27.2	1(0.9)	11.4	--	--	--	--	--	--	--
7 East San Fernando Valley	069	60	80	0	11(18.3)	39.2	243	67.5	34.4	4(1.6)	14.4	--	--	--	--	--	--	--
8 West San Gabriel Valley	088	--	--	--	--	--	109	52.0	35.7	3(2.8)	12.3	59	153	48.5	--	--	8.8	0
9 East San Gabriel Valley 1	060	52	74	0	7(13.5)	32.0	153	72.1	42.9	6(3.9)	12.8	58	208	74.9	--	--	7.9	0
9 East San Gabriel Valley 2	591	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
10 Pomona/Walnut Valley	075	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
11 South San Gabriel Valley	085	--	--	--	--	--	118	71.1	35.4	2(1.7)	14.8	59	194	69.7	0.04	0.02	9.9	0
12 South Central LA County+	112+	--	--	--	--	--	114	69.2	37.7	3(2.6)	14.7	57	118	59.6	0.03	0.02	9.9	0
13 Santa Clarita Valley	090	53	56	0	1(1.9)	23.4	--	--	--	--	--	--	--	--	--	--	--	--
ORANGE COUNTY																		
16 North Orange County	3177	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
17 Central Orange County	3176	56	63	0	1(1.8)	30.9	334	64.6	32.1	4(1.2)	11.8	--	--	--	--	--	--	--
18 North Coastal Orange County	3195	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
19 Saddleback Valley	3812	60	56	0	1(1.7)	23.5	116	39.2	23.8	1(0.9)	9.5	--	--	--	--	--	--	--
RIVERSIDE COUNTY																		
22 Norco/Corona	4155	59	79	0	7(11.9)	35.6	--	--	--	--	--	--	--	--	--	--	--	--
23 Metropolitan Riverside County 1	4144	119	77	0	35(29.4)	42.5	347	54.5	39.6	13(3.7)	15.3	60	161	87.6	0.01	0.01	7.3	0
23 Metropolitan Riverside County 2	4146	--	--	--	--	--	114	42.2	34.0	2(1.8)	13.4	61	162	66.0	0.01	0.01	6.8	0
23 Mira Loma	4165	59	108	0	33(55.9)	53.4	229	49.2	40.6	14(6.1)	16.9	--	--	--	--	--	--	--
24 Perris Valley	4149	58	80	0	9(15.5)	34.8	--	--	--	--	--	--	--	--	--	--	--	--
25 Lake Elsinore	4158	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
29 Banning Airport	4164	59	99	0	1(1.7)	25.9	--	--	--	--	--	--	--	--	--	--	--	--
30 Coachella Valley 1**	4137	54	140	0	1(1.9)	22.6	112	21.8	14.6	0	6.7	--	--	--	--	--	--	--
30 Coachella Valley 2**	4157	120	132	0	9(7.5)	32.5	112	27.5	17.0	0	7.9	--	--	--	--	--	--	--
SAN BERNARDINO COUNTY																		
32 Northwest San Bernardino Valley	5175	--	--	--	--	--	--	--	--	--	--	59	123	58.5	0.01	0.01	6.8	0
33 Southwest San Bernardino Valley	5817	62	70	0	9(14.5)	35.6	114	46.9	35.9	3(2.6)	14.7	--	--	--	--	--	--	--
34 Central San Bernardino Valley 1	5197	60	75	0	13(21.7)	40.2	118	46.4	32.7	2(1.7)	14.3	58	185	84.3	--	--	6.7	0
34 Central San Bernardino Valley 2	5203	52	66	0	11(21.2)	41.5	110	37.8	35.2	2(1.8)	13.0	61	125	74.3	0.01	0.01	7.1	0
35 East San Bernardino Valley	5204	60	52	0	2(3.3)	30.2	--	--	--	--	--	--	--	--	--	--	--	--
37 Central San Bernardino Mountains	5181	51	57	0	1(2.0)	24.5	--	--	--	--	--	--	--	--	--	--	--	--
38 East San Bernardino Mountains	5818	--	--	--	--	--	56	40.8	29.4	1(1.8)	9.9	--	--	--	--	--	--	--
DISTRICT MAXIMUM			140	0	35	53.4		72.1	42.9	14	16.9		208	87.6	0.04	0.02	13.6	0
SOUTH COAST AIR BASIN			108	0	60	53.4		72.1	42.9	27	16.9		208	87.6	0.04	0.02	13.6	0

µg/m³ - Micrograms per cubic meter of air.

AAM = Annual Arithmetic Mean

-- - Pollutant not monitored.

** Salton Sea Air Basin.

+ Site was relocated.

f) - PM10 samples were collected every 6 days at all sites except for Station Numbers 4144 and 4157 where samples were collected every 3 days.

g) - PM2.5 samples were collected every 3 days at all sites except for the following sites: Station Numbers 069, 072, 077, 087, 3176, 4144 and 4165 where samples were taken every day, and Station Number 5818 where samples were taken every 6 days.

h) - Federal annual PM10 standard (AAM > 50 µg/m³) was revoked effective December 17, 2006. State standard is annual average (AAM) > 20 µg/m³.

i) - Federal PM2.5 standard is annual average (AAM) > 15.0 µg/m³. State standard is annual average (AAM) > 12.0 µg/m³.

j) - Federal lead standards are rolling 3-month average > 0.15 µg/m³, and quarterly average > 1.5 µg/m³. State standard is monthly average ≥ 1.5 µg/m³.

Maps showing the source/receptor area boundaries can be accessed via the Internet by entering your address in the AQMD [Current Hourly Air Quality Map](http://www2.aqmd.gov/webapp/gisagi2/VEMap3D.aspx), accessed from <http://www2.aqmd.gov/webapp/gisagi2/VEMap3D.aspx> or at <http://www.aqmd.gov/map/MapAQMD2.pdf>. A map is also available free of charge from the AQMD Public Information Center at 1-800-CUT-SMOG.



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